

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An observation device for acquiring two images
corresponding to a scene viewed from two different aiming directions,
comprising: [[,]]

a primary mirror that is parabolic or nearly parabolic for receiving, at two
different moments, light beams of an object to observe to be observed along two
respective angles of incidence θ_1 and $-\theta_1$ relative to an optical axis of the primary
mirror, the primary mirror having a focus, comprising

a primary mirror that is parabolic or nearly parabolic, secondary a
secondary reflection means situated between the primary mirror and its focus said
primary mirror and said focus, said secondary reflection means reflecting light
beams that are received by the from said primary mirror, said primary mirror
being suitable for passing the light beams light reflected by the secondary by said
secondary reflection means so as to enable them said light reflected by said
secondary reflection means to reach a plurality of tertiary reflection means
symetrically disposed relative to the primary mirror on its side about said optical
axis of said primary mirror and on a side of said primary mirror opposite from the
side on a side of the primary mirror on which the said secondary reflection means
are is disposed, and image acquisition means for receiving light reflected by said
plurality of tertiary reflection means,

characterized in that ~~the~~ said secondary reflection means comprises a mirror situated on ~~the~~ said optical axis of ~~the~~ said primary mirror, ~~and in that the~~ said primary mirror and said secondary reflection means ~~are being~~ dimensioned in such a manner that the light beams which are incident on said primary mirror with said two respective angles θ_1 and $-\theta_1$ are focused respectively on ~~the tertiary~~ said plurality of tertiary reflection means ~~which comprises means~~ for focusing incident light beams onto ~~the~~ said image acquisition means.

2. (Currently Amended) A device according to claim 1, characterized in that ~~[[the]]~~ said secondary mirror is adapted to reflect symmetrically about ~~[[the]]~~ said optical axis, the ~~optical~~ light beams reaching ~~[[the]]~~ said primary mirror along said two ~~directions~~ angles of incidence θ_1 and $-\theta_1$ that are symmetric about ~~[[the]]~~ said optical axis.

3. (Currently Amended) A device according to claim 2, characterized in that ~~[[the]]~~ said plurality of tertiary reflection means ~~comprise~~ comprises two plane mirrors placed symmetrically on either side of ~~the direction of the~~ said optical axis of ~~[[the]]~~ said primary mirror, together with two corresponding concave mirrors also disposed symmetrically about said ~~direction, the~~ optical axis, said plane mirrors ~~reflecting~~ reflect respectively onto ~~their~~ associated concave ~~mirror the~~ mirrors light beams which come from ~~[[the]]~~ said secondary mirror and corresponding to ~~[[the]]~~ said respective ~~direction~~ angles of incidence θ_1 and $-\theta_1$, ~~[[the]]~~ said

concave mirrors reflecting ~~[[the]]~~ said light beams they receive so as to focus them on ~~[[the]]~~ said image acquisition means.

4. (Currently Amended) A device according to claim 2, characterized in that ~~[[the]]~~ said plurality of tertiary reflection means ~~comprise~~ comprises two concave mirrors which are disposed symmetrically on either side of ~~the direction of the~~ said optical axis of ~~[[the]]~~ said primary mirror and which reflect respectively the light beams arriving from ~~[[the]]~~ said secondary mirror and corresponding to ~~[[the]]~~ said respective ~~directions~~ angles of incidence θ_1 and $-\theta_1$, together with a plane mirror which is common to both paths and which is centered on ~~the direction of the~~ said optical axis, extending perpendicularly to said ~~direction~~ optical axis, said plane mirror reflecting the light beams it receives onto ~~[[the]]~~ said image acquisition means situated on a focal plane common to both paths.

5. (Currently Amended) A device according to claim 2, characterized in that ~~[[the]]~~ said primary mirror includes a central hole through which ~~[[the]]~~ said secondary mirror reflects light.

6. (Currently Amended) A device according to claim 5, characterized in that ~~[[the]]~~ said secondary mirror forms two intermediate images at ~~[[the]]~~ a central opening of ~~[[the]]~~ said primary mirror, with the ~~[[two]]~~ light beams they reflect corresponding respectively to said two ~~observed directions~~ respective angles of incidence ~~having an angle~~ θ_1 and $-\theta_1$.

7. (Currently Amended) ~~A stereoscopic~~ An observation system ~~comprising a~~
~~satellite and stereoscopic image acquisition means, characterized in that said~~
~~stereoscopic means comprise a~~ including the observation device according to any
preceding claim.